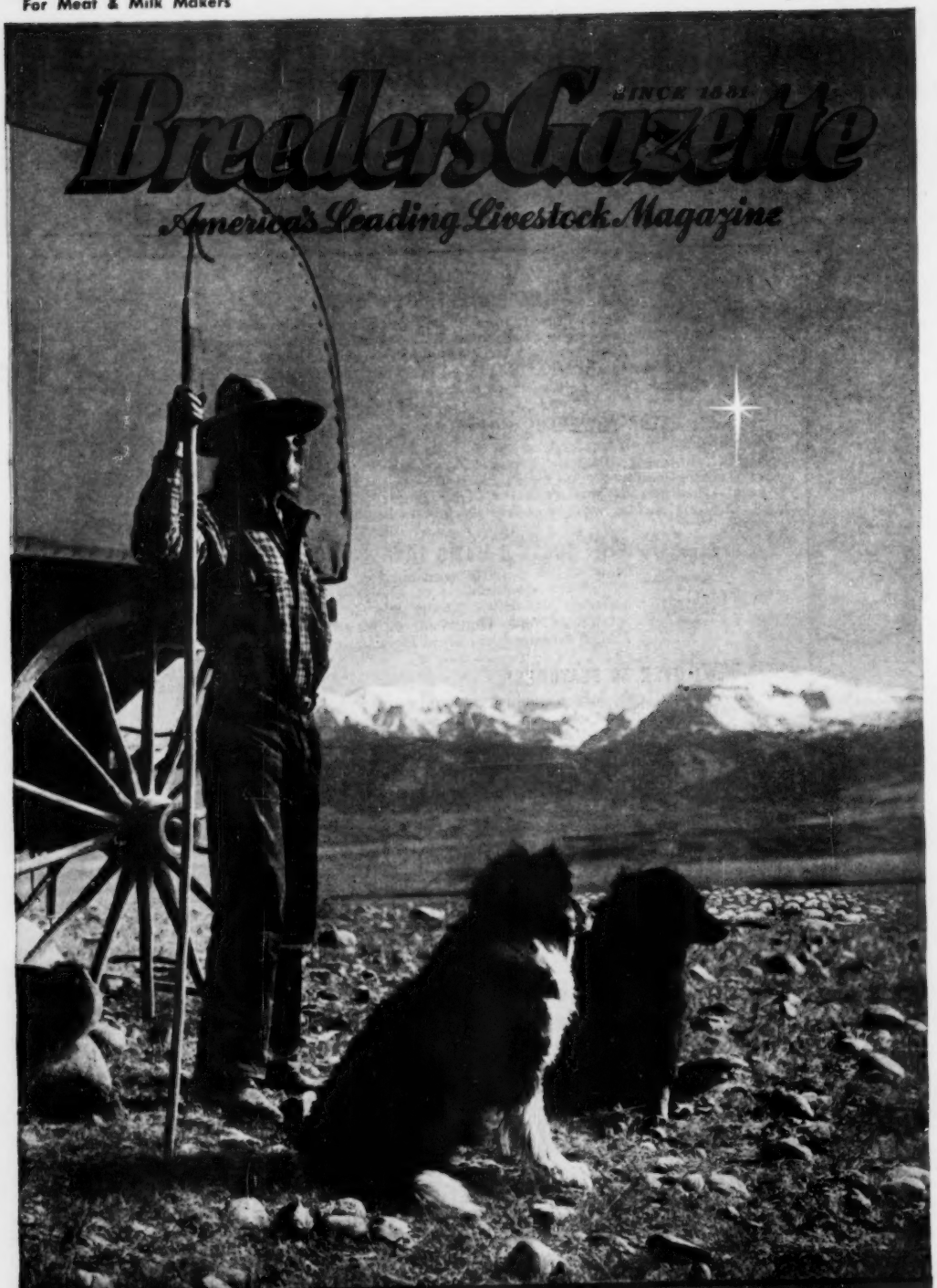
For Meat & Milk Makers

$1.00 a Year


Breeder's Gazette
SINCE 1881
America's Leading Livestock Magazine
December 1952
Your President's Farm . . . No Stopped Commission . . .
Purebreds in 6 Years . . . Take Care of That Dead Jaw

New DODGE "Job-Rated" TRUCKS

offer big savings for farmers!

NEW! MORE POWERFUL ENGINES!

Seven brawny engines with high horsepower and compression ratios, three of them brand-new. Increased displacement, twin carburetion available on heavier trucks. *PLUS* proved features like 4-ring pistons, chrome-plated top ring, exhaust valve seat inserts.

NEW! EXTRA-POWERFUL BRAKES!

Stop easily on the steepest grade, fully loaded! Super-safe brakes give smooth stops, reduced driver fatigue, greater load protection . . . new stopping power on 1- through 2½-ton trucks! *PLUS* Dodge's oversize braking surface with rivet-free Cyclebond linings.

NEW! TRUCK-O-MATIC TRANSMISSION!

New Truck-o-matic transmission . . . available on ½- and ¾-ton models of Dodge trucks . . . saves shifting, cuts driver fatigue, lets you rock out of snow, mud, sand. Only Dodge offers shift-free Truck-o-matic! *PLUS* famous gyrol Fluid Drive, to prolong truck life.

NEW! OVER 50 FEATURES!

Reinforced cab, larger exhaust system, extra-capacity radiators. Tinted glass, more powerful heaters available. *PLUS* proved features like moistureproof ignition, high-torque capacity starting motors. See the new Dodge trucks at your dealer's December 4th.

DODGE "Job-Rated" TRUCKS

FROM ½- THROUGH 4-TON, THERE'S A DODGE "JOB-RATED" TRUCK TO FIT YOUR FARM JOB!

Spend less time treating sick animals!

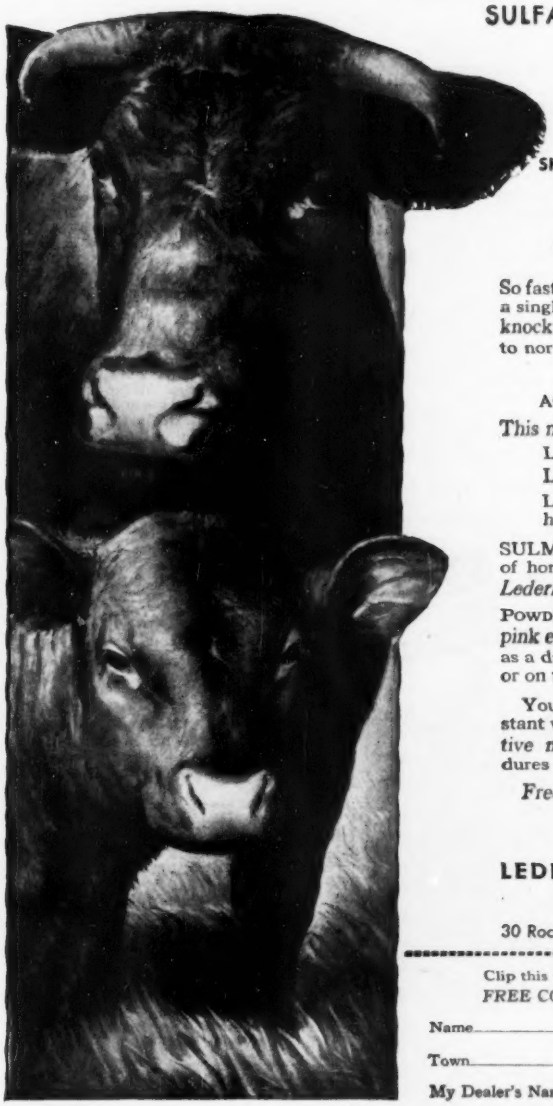
Avoid death and weight losses

Use fast-acting, time-proved, low-cost

Sulmet*

SULFAMETHAZINE

Lederle



Easy-to-give, effective with once-a-day *treatment against*

SHIPPING FEVER • FOOT ROT • CALF DIPHTHERIA
ACUTE MASTITIS • METRITIS • CALF SCOURS
BACILLARY ENTERITIS
OTHER BACTERIAL DISEASES and COCCIDIOSIS

So fast is the action of SULMET Sulfamethazine *Lederle*, a single treatment given promptly is usually sufficient to knock out bacterial infections and bring sick animals back to normal feeding.

DON'T WAIT –
ACT AT THE FIRST SIGN OF ILLNESS!

This means:

Less loss of weight and stunting.

Less time required for treating animals.

Less irritation to sick animals from repeated handling.

SULMET is also effective against many common diseases of horses, swine and sheep. SULMET Sulfamethazine *Lederle is available in 6 dosage forms:*

POWDER, TABLETS, OBLETS*, TINTED EMULSION (for *pink eye* bacterial infections), SOLUTION 12.5% (for use as a drench, if desired), and INJECTABLE SOLUTION (by, or on the prescription of, a veterinarian).

Your veterinarian is your dependable ally in the constant war against disease. Consult him for the most effective *management practices and disease-control* procedures to meet your individual needs.

Free literature gladly sent upon request.

*Reg. U. S. Pat. Off.

Animal Industry Section

LEDERLE LABORATORIES DIVISION

AMERICAN *Cyanamid* COMPANY

30 Rockefeller Plaza New York 20, N. Y.

Clip this coupon and send to us at the address above for your FREE COPY of "COMMON DISEASES OF LIVESTOCK."

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Any boy can do a man's job

with the simple-to-operate

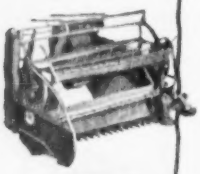
GEHL

PRONOUNCE IT "GALE"

FORAGE HARVESTER

Any boy who drives a tractor can operate a Gehl Forage Harvester. Many owners let their teen-agers run the outfit, and sometimes do custom-work for neighbors. This simplicity of operation, known to all Gehl Chopper owners, indicates the smart, practical, experienced engineering in every part of the Gehl. Built by specialists in the manufacture of feed choppers for over half a century, the Gehl works better, lasts longer.

There's a big difference in Forage Harvesters. The Gehl chopping mechanism follows the basic principle so successfully used in Gehl Silo Fillers, famous for years. Clean, fast, uniform chopping that makes better feed . . . silage that packs well, keeps better, are some of the reasons why ***Gehl has sold more Forage Harvesters than any other independent manufacturer.***



The GEHL Mower-Bar Attachment is making a hit everywhere! It cuts any standing crop from short Alfalfa to tall Sudan and Sorghum, chops and blows it into wagon . . . clearing the field in one operation, saving sweat, back-breaking labor and time. Helps you beat the man shortage and the weather.

QUICK CHANGE-OVER for 3-way Harvesting. From the Mower-Bar you can change quickly to the Hay Pickup or Row-Crop Attachment. Your choice of engine power or power take-off from tractor.

Get the facts about "GRASSLAND" FARMING FREE! Send for *new free book:* "Streamlined Methods of Harvesting Hay and Making Grass Silage." *Tells how* to store in stacks, trench silos, top-of-ground, or regular silos . . . *when* to cut . . . *how* short to cut, and scores of other important questions that show how others make money with "grass silage."

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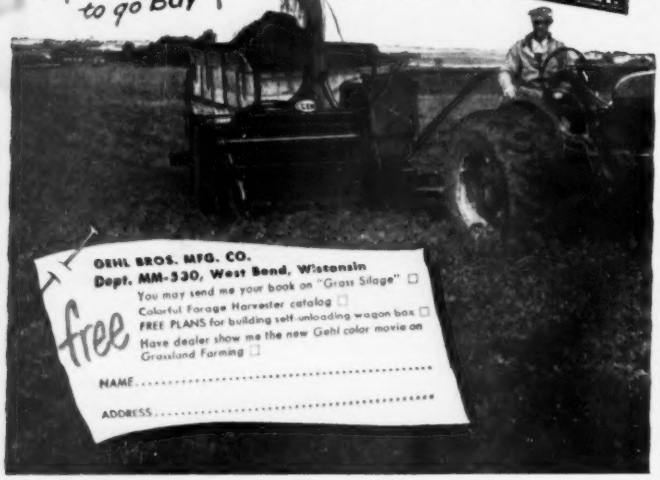
GEHL SINCE 1859 PRONOUNCE IT "GALE"

a good name to go "BUY"



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Dept. MM-330, West Bend, Wisconsin

You may send me your book on "Grass Silage" ☐
Colorful Forage Harvester catalog ☐
FREE PLANS for building self-unloading wagon box ☐
Have dealer show me the new Gehl color movie on Grassland Farming ☐

NAME.....

ADDRESS.....

by Carl W. Gay

1. How does marketing farm crops through livestock reduce shipping costs? It takes some 800 lbs. of feed to grow 100 lbs. of steer, 450 to 500 lbs. for calves and hogs, hence the tonnage on which freight is to be paid is much less on the cattle and hogs than it would be on the farm crops on which the livestock was produced.

2. Where and when was the Chicago livestock market established? The original Chicago market was opened at the old Bull's Head Stock Yards in 1848; this was followed by the organization of the Union Stock Yard and Transit Company by John B. Sherman in 1865.

3. Does the modern bull have competition as a cow freshener? Yes, Michigan State reports successful treatment of virgin heifers and sterile cows with hormones (progesterin and estrogen) to induce lactation which produced, in 5 females, an average of 350 lbs. of butterfat in 10 months.

4. What is the latest and most unique of the by-products of cattle slaughter? The xiphoid cartilage from the rear end of the sternum or breast bone to be used in plastic surgery. Human noses, chins, foreheads and other parts are fashioned from this base thereby obviating the preliminary operation on the patient to secure cartilage to be implanted in the plastic operation.

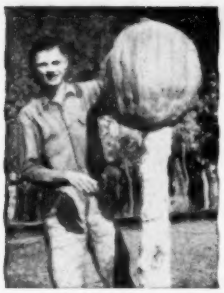
5. How extensively has calfhood vaccination been practiced in the control of Brucellosis? Over 85% of all calves in New York, Pennsylvania, New Jersey, Vermont, Connecticut and West Virginia and from 25 to 75% in Delaware, Maryland, Virginia, Massachusetts, Maine, and Rhode Island have been vaccinated (1951) while many western and southern states have adopted this means of Brucellosis control.

6. Is vesicular exanthema which has caused hog men so much concern a new disease? No, it has been known in California for about 20 years.

7. The "disease level" is believed to influence feeding results; what is it? An expression of the amount of feedlot contamination by bacteria, viruses and parasites to which the stock is exposed.

8. Does the color of cattle influence their capacity to "do"? The notion has prevailed that in red cattle the darker colors indicated the better feeders, the lighter shades the more mellow handlers. U.S.D.A. reports a test running four years and covering 2,000 head of Hereford steers ranging from light to dark red in which there was no significant difference in average gains.

9. Who was the first qualified geneticist to apply pure science to practical livestock breeding? Dr. L. J. Cole of the University of Wisconsin in 1910.



Breeder's Gazette

SINCE 1881

The Milk & Meat Makers' Magazine

SAMUEL R. GUARD, Editor; BAILEY GUARD, Publisher; RODERICK GUARD, Assistant Editor; RALPH W. POULTON, Advertising Manager; CLAUDE W. MITCHELL, Swine Editor; JUNE A. BURNS, Subscription Manager; ARGYLE T. WAMPLER, Art Editor. Our Advertising Representatives are PECK & BILLINGSLEA, 185 N. Wabash Ave., Chicago 1, Illinois; BILLINGSLEA & FICKE, 420 Lexington Ave., New York 17, New York; W. M. TEMPLE, Suite 800, 1012 Baltimore Ave., Kansas City, Missouri. Charter member of Audit Bureau of Circulations. Entered as second-class matter at the Post Office at Spencer, Indiana, under Act of March 3, 1879. Published monthly and Copyrighted 1952 by the Breeder's Gazette Publishing Company, Inc., Stockyards, Louisville 6, Kentucky.

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Sam Guard's Roundup

Grace for December

LORD, EVEN AS THE TWELFTH MONTH OF THY YEAR ONE THOUSAND *Nine Hundred and Fifty-two* has two full moons, so do we have double of gladness and joy. Thanks be to Thee! Wonderful Counsellor, mighty God, everlasting *Father, Prince of Peace,* didn't not a multitude of the heavenly host acclaim to us farmer folk abiding in the fields, watching over our flocks at night: "Glory-to-God-in-the-highest, and on-earth-peace-among-men-with-whom-He-is-pleased?" *So be it. Amen.*

Champion Pumpkin

IF YOU HAD BEEN IN THE CHELSEA, IA., COUNTRY SCHOOL ON HALLOWE'EN, I'll bet you'd have been real skeered, whether you'd admit it or not, to see a grinning jack-o'-lantern made out of a 60-lb. pumpkin. *That's right, 60 lbs., one* pumpkin! 54 inches around the middle! 64 *inches around the blossom end! Grew so big it apparently proved too much* for the stem, which let go and rolled the pumpkin down the contour and into the ditch at the end of the cornfield. Fact! Just to prove it I'll put up top there the picture of LELAND SEDLACEK, *the farm boy who found it.* HENRY, his dad, threw the seeds away; said it should have stuck on and might have *grown larger! Now, don't tell me you can beat it.* Where's your picture?

The Election

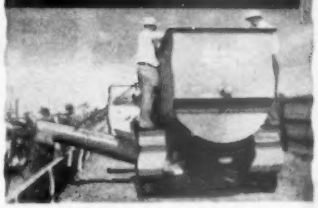
THE LANDSLIDE FOR GEN. EISENHOWER STARTED ON A FARM IN DODGE Co., Minn., when a hundred *thousand of you folks gathered to witness the* contest for the grand championship of the republic. *It was there that the farmers made up their minds to* plunk for IKE. He had wrestled milk cans *in the* Belle Springs Creamery. He had shocked wheat way after dark, many a time. *He knew what it takes to earn a dollar on a farm. He still got up with the* chickens. His younger brother had been president of two great Ag. colleges. *He himself had watched men produce food in every farming area around* the world. He could relate Agriculture to War and to Peace. *He had seen* rural peoples in democracy and under communism. The fundamentum that *the national economy rests on its agricultural base was as the marrow of* DWIGHT D. EISENHOWER'S bones. That's what rolled up the big majority.

What May We Expect?

IT WAS AT THE PLOWING MATCH THAT THE PRESIDENT-ELECT DECLARED farmers to be worthy of earning a fair, full share of the national income—*not 90% of parity, but full parity.* He began his trip to Korea there too, declaring that we must achieve a prosperity not based on expenditures for war. That must mean that *Agriculture* is entitled to an investment in soil, herd, fence, fertilizer, seed, power, purebred sires, machinery, home, and the farm folk themselves, *sufficient to bring* maximum production of food and fiber, and still maintain fertility. IKE believes that farm programs, like foreign relations, should be non-partisan; that farmers should be safeguarded against disaster, *but not regimented;* that administration of farm programs should be localized in the hands of your neighbors; that meat, milk, eggs, fruits and vegetables should also have sound price supports. And right now in your own farm planning, "without any if's, and's or but's" you can count on 90% of parity on basic commodities for two more years—through 1954. That's what the man said, and that's what started the landslide. The new President's speech at Kasson mirrors the road ahead.

Machines INSTEAD OF MANPOWER!

THE DAVIS-BUILT TRANSIT MIXER



Completely mixes rations with ensilage or hay. Banishes hand labor, slashes costs, and takes most of the guesswork out of feeding cattle. NOW! PRICED SO ALL CAN AFFORD—a size for every need. Automatically fills bunks or self-feeders.

IDEAL FARM FEED MILLING PLANT

Ideal farm feed milling plant. Ends scoop shovel backache *and* feed cost headache. *Combination Roller Mill and Batch Mixer with 3 H.P. single-phase motor. Bucket elevator attachment lifts grain and mixed feed to overhead storage.* KRIMPER KRACKER *GRAIN ROLLER. All sizes from ½ to 25 H.P.*

CORN AND COB GRANULATOR

Successor to the Burr and Hammer Mill. Completely revolutionizes the *method of processing ear corn. A matchless finished product uniformly* granulated, not ground or hammered—*it's sliced.* Each kernel cut *into 3, 4, or 5 pieces and the cobs* and shucks *crumbled likewise.* Cattle lick it up to the last ounce. Poultry eat the neatly cut corn, leave *cob for litter.* Is best method in existence for reducing cobs for mixing *with Urea and molasses.* Cut shows 5 to 7½ H.P. size. Big production units also for any requirement. It uniformly granulates or chops hay, corn stalks, corn cobs, shucks, green oats, vegetables, copra, leather and rubber scraps, *tobacco stems.* Handles anything WET OR DRY *at far less* cost for power and upkeep than any other mill.

FREE! Bulletins on how to slash your own feeding costs. Samples, crimped, also granulated feeding grains.

Dept. BZ-12

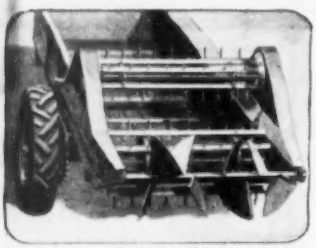
DAVIS BUILT · HCD SINCE 1894

H. C. DAVIS SONS CO.

Established 1894, BONNER SPRINGS, KS

COUNT 'EM... 4 ways you save with this NEW OLIVER SPREADER

1. *You save WORK,* with the greatest labor-saver ever put on a spreader—*the automatic, self-locking stand.* Hitch or unhitch without lifting or cranking—no effort at all!



2. *You save MONEY.* The Oliver "17" spreads manure wide and thin—the way it should be for best results. The same amount goes further—you make fewer trips to cover a field.

3. *LOADING TIME* is still another thing you save. The *new* Oliver "17" is built low to the ground, an easy reach for the loader. You'll note there is no top bracing to get in the way.

4. *And save on REPAIRS.* Oliver's *inverted arch construction* keeps trouble away—no matter how big the loads, how rough the travel. Buy a "17" and *save* . . . see your Oliver Dealer.

See your OLIVER DEALER and SAVE!

THE OLIVER CORPORATION F24—12
400 West Madison Street
Chicago 6, Illinois

Please send me the illustrated booklet on the new Oliver "17" Spreader.

Name.....

City.....State.....

RFD.....County.....

Dr. Higginbottom

He Stopped Communism Cold!

On Wednesday evening of the International Livestock Exposition, Dec. 3, 1952, in the Conrad Hilton Hotel, Chicago, Dr. Sam Higginbottom will receive the Distinguished Service Award of the American Agricultural Editors' Association.

SOME of the speeches being delivered these days on behalf of a more enlightened U. S. foreign policy must sound like a long-delayed echo to Sam Higginbottom, a retired Presbyterian missionary now living in Florida. It is as if the theory he was preaching 40 some years ago had somehow been amplified in time and was now coming back, loud and clear, as an imperative condition to world peace: "You can save men's souls only by saving their bodies first."

Dr. Higginbottom's friends will tell you that his work was a necessary forerunner to Point IV, to the Food and Agriculture Organization of the United Nations, and to all the other programs now directed toward raising living standards in the so-called backward countries. They will tell you that the product of Dr. Hig's life work is, in fact, the most encouraging evidence to date that abundance can be achieved, and with abundance, peace.

A big, shaggy man of massive energy, Sam Higginbottom is the founder of the Allahabad Agricultural Institute, an accredited Christian college just outside the city of Allahabad in north India. Heart of the college is a 600-acre demonstration farm which, since 1912, has been successfully experimenting with ways to make native tools more productive. Its most notable contribution is the "wah-wah" plow—named after the Indian farmer's exclamation of surprise—which is manufactured in the Institute's own foundry and sold at cost, roughly the price of one bushel of wheat. The "wah-wah" is simply a small steel plowshare with moldboard bolted to a wooden beam. It opens a 6-inch furrow, small by American standards, but double the capacity of the traditional Indian plow, which is nothing more than a metal-pointed stick with a handle. Because of it and similar tools, Indian farmers in the vicinity of Allahabad have been able to boost their production of wheat from 8 bushels an acre to as high as 62. As a result, for the first time in history, some lowcaste families in India are getting enough to eat.

Moreover, Dr. Hig's work has apparently turned out to be India's strongest defense against Communism. There have been no communist-inspired riots around Allahabad; there have been no famines for the communists to exploit.

Born in rural England, reared in Wales, educated at Amherst and Princeton, Sam Higginbottom first arrived in India in 1903. He was 29, as eager a young evangelist as ever opened a prayer book, convinced that exhortation of the Word would bring the world to God. Six years later he was not so sure. He had seen too much hunger, too much poverty, too much disease. The painful truth was that the gospel could hope to win few converts among people who were starving.

By 1909, Sam was sure of what he had to do. He returned to America and at 35, with a wife and two children to support, enrolled as a freshman in the College of Agriculture at Ohio State University. For the next two years he worked feverishly. During the week he learned all he could about scientific farming. On Sundays he was busy trying to communicate his intense concern for India to any congregation that would offer him a pulpit. The congregations responded generously and in 1911 he was able to sail for India not only with a degree in Agriculture, but with $30,000 in cash.

A year later Dr. Hig turned his first clod of earth on the demonstration farm at Allahabad—260 badly eroded acres crawling with gullies and eaten by thorn grass. He had only a handful of low-caste menials to help him. Half the natives in the vicinity, it seemed, regarded coolie labor as beneath them; the other half were frankly suspicious. Curious and somewhat awed, most of them merely stood around and watched.

Dr. Hig made no special effort to tell his neighbors what he was doing, or why he was doing it. He knew better. He had already learned the lesson that 40 years later was to become the basic tenet in the U. S. Government's bold new program for underdeveloped countries: You don't teach the "backward" people out of a book. You don't get anywhere preaching to them, nor by doing things for them. You can teach only by example. You can make real progress only when you teach them how to help themselves.

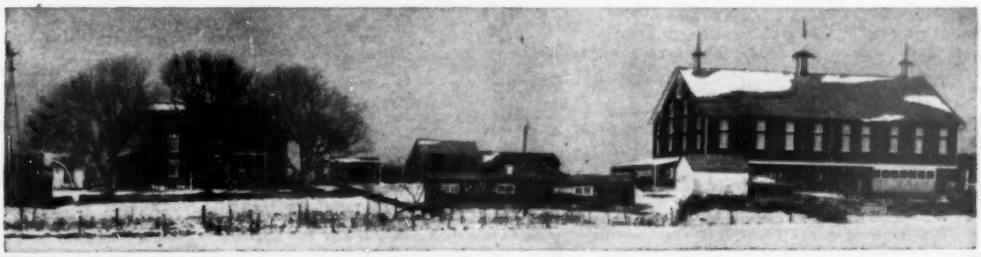
At first the natives called Sam Higginbottom "Pagal Sahib"—crazy man. They could not believe he could make things grow on soil that for years had been useless. In the face of certain drought, they did not believe anything could be done to guarantee a steady supply of milk or butter from undernourished cattle. So they stood and watched him dig long trenches, and fill them with manure, weeds, and garbage. They saw him dig deep holes and fill them with fresh green fodder. And they shook their heads sadly. "Pagal sahib"—crazy man.

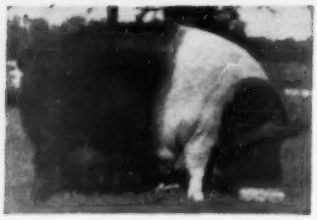
It wasn't long, though. When their own cows turned lean and dry, they saw the Institute's herd stay fat and productive. Miracle of miracles, lush fruits and vegetables came out of earth that never before had borne anything edible. Fields which theretofore had yielded only one crop a year began to produce three and four crops.

One day, wanting to demonstrate how deep plowing enables soil to hold moisture, Sam told some visitors, "We'll compare our field *(please turn to page 18)*

★ ★ ★ ★ ★ ★ PRESIDENT EISENHOWER'S FARM ★ ★ ★ ★ ★ ★

We were just bound to have a farmer in the White House! So we took this picture of General Eisenhower's farmstead, out the Emmitsburg Pike in Adams Co., Pa., specially for you. It's a typical Pennsylvania Dutch bank-barn, housing Guernseys and Holsteins, and one purebred Hereford heifer (no, two now!). With a red brick home built a century and a quarter ago by the Eisenhowers' Mennonite forbears.





Noted Hampshire "Lochinvar Lill" symbolizes the type of brood sow you want. Photo by Arnold Moore before she raised a litter of 10.

Handling Your Brood Sows

by Prof. E. C. Miller, Jr.
Hogman at Purdue University

HEAVY death losses will occur in your pigs the first week after farrowing, regardless of the care given, unless the sow has received a balanced ration. So feeding the unborn pig is the most important problem that confronts you right now.

Approximately two-thirds of the growth is made during the last 4 weeks of gestation. However, the size of pigs, their strength and vigor at birth and their livability depend largely upon the proper feeding of your sow throughout the entire gestation period.

A 2½ pound pig at birth has five times greater chance of being weaned than a 1½ pound pig. Here is a little table that shows how the weight of newborn pigs affects their future performance:

Effect of Birth Weight on Performance

Birth Wt. Lbs.	*% Born Dead*	*% Weaned*	*Weaning Wt. Lbs.*
1.5	16	13	18
2.0	6	49	21
2.5	4	67	25
3.0	4	77	28
3.5	3	86	30
4.0	1	84	35

The best substitute we have for green pasture is dehydrated alfalfa meal. It should be bright green in color and have at least 17% protein. Alfalfa meal should make up at least 15% by weight of the total brood sow's ration in dry lot.

Bright, leafy, second or third cutting alfalfa hay can be ground and substituted for the dehydrated alfalfa meal. Hay loses its Vitamin A content in storage. Therefore, use only hay that has been stored for less than a year. Loose hay can be fed in a rack, but some sows will not eat enough of it to meet their Vitamin A requirement.

Hand feeding makes it possible to regulate the feed intake of the pregnant sow so that she will gain 75 to 100 lbs. during the gestation period. Allowing sows to become overfat is a waste of feed and often causes difficulties at farrowing time.

One feeding a day is just as satisfactory as two. Provide plenty of trough space in order that each sow will have an equal chance to get her share. Here is a good ration for hand feeding your sows: Ground corn, 550 lbs.; ground oats, 250 lbs.; alfalfa meal, 150 lbs.; protein supplement, 50 lbs.

Or for gilts in dry lot: Ground corn, 550 lbs.; ground oats, 200 lbs.; alfalfa meal, 150 lbs.; protein supplement, 100 lbs. A 250-lb. gilt will require about 4 or 5 lbs. of the mixture per day, and a 500-lb. sow about 6 or 7 lbs.

Ear corn may replace the ground corn in these rations. Feed a mixture of the other feeds at a rate of 2 to 3 lbs. daily, plus enough ear corn to keep the sows in medium condition. When oats are not available, equal parts of wheat middlings and bran may be substituted.

But feed only enough grain to keep sows in medium condition when they have access to good ladino, alfalfa or red clover pasture. If sows are in good condition, eliminate the grain from the ration until 4 weeks before farrowing. Then feed 4 or 5 lbs. of oats per sow daily.

Sows should receive 1/3 to ½ pound of protein supplement daily and have free access to mineral mixture. A good one is composed of a 40-lbs. of pulverized limestone or oyster shell, 40 lbs. of steamed bonemeal or deflourinated phosphate, and 20 lbs. of iodized salt. It is recommended that hogs be given free access to the mixture in a self-feeder. If it is mixed in the feed, it should be limited to 40 lbs. per ton of total feed or 220 lbs. per ton of protein supplement.

Loose salt should be fed free choice in addition to that mixed in the feed. Block salt should never be used as the sole source of salt in the ration. Do not fear salt poisoning. Although large quantities of salt are toxic, poisoning is not likely to occur. Experiments have shown that over 200 lbs. of feed is saved for each pound of salt consumed free-choice by hogs.

Gilts usually require 3 to 4 lbs. of grain daily to keep them in a gaining condition while on good legume pasture. They should also receive from ½ to 2/3 lbs. of protein supplement per head daily.

More and more farmers are self-feeding sows during the winter gestation period because it saves time and labor. Self-feeding gives even the timid sow a chance to get her share of the ration. However, it increases the feed cost and is harder to keep sows in the proper condition.

No hard and fast rule can be followed in self-feeding sows. Changes in the ration must be made according to the condition of your sow. The following rations have been self-fed successfully:

Ration No. 1: Ground corn, 325 lbs.; ground oats, 300 lbs.; alfalfa meal, 300 lbs.; protein supplement, 75 lbs.

Ration No. 2, for sows gleaning corn fields: Whole oats, 600 lbs.; alfalfa meal, 300 lbs.; protein supplement, 100 lbs.

If sows or gilts tend to fatten on Ration No. 1, use more alfalfa meal and less corn in the mixture; if too thin, use less alfalfa meal and more corn. Corn and cob meal is sometimes used to replace the corn to make the ration more bulky. The cobs must be ground fine or the sows will sort them out. Bright green second or third cutting alfalfa hay can be ground and substituted for alfalfa meal.

Ration No. 2 can be fed to sows gleaning cornfields. Care must be taken to see that the sows do not become too fat when there is a great deal of corn on the ground. Summer pigs can be used to glean most of the corn before turning in the sows. Shutting the sows out of the cornfield a few days at a time will increase consumption of the self-fed mixture.

Now as to protein supplements—there are several good ready mixed ones on the market. However, many farmers find it profitable to buy the ingredients and mix the supplement themselves, or have it mixed at the elevator. Here are three 1000-lb. mixes for dry lot feeding:

Dry Lot Supplement 5 with 45% protein content: Meat and bone scraps, 200 lbs.; fish meal, 200 lbs.; Soybean oil meal, 400 lbs.; cottonseed meal, 100 lbs.; alfalfa meal, 100 lbs.

Dry Lot Supplement 2 with 44% protein content: Meat and bone scraps, 400 lbs.; Soybean oil meal, 500 lbs.; alfalfa meal, 100 lbs.

Dry Lot Soy Supplement with 36% protein content: Soybean oil meal, 800 lbs.; alfalfa meal, 100 lbs.; mineral mixture, 100 lbs.

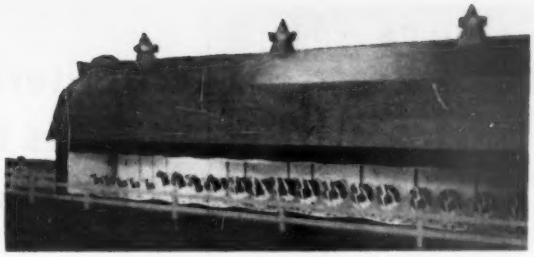
Or, if you are feeding on pasture here is Supplement C, with 47% protein content: Meat and bone scraps, 200 lbs.; fish meal, 200 lbs.; Soybean oil meal, 400 lbs.; cottonseed meal, 100 lbs.; linseed oil meal, 100 lbs.

Pasture Supple- *(please turn to page 14)*

Thinking about a new central farrowing house? This one on the farm of Meyer Bros., in Wabasha Co., Minn., features temperature control. Construction is tight, concrete floors contain vermiculite insulation to prevent chilling of pigs, and supplementary heat is there when needed.

All Purebreds in 6 Years

by Ben Brown
Holstein-Friesian Association of America



The stanchions in Ben Brown's trailer—after 6 years.

MANY of you BREEDER'S GAZETTE readers have seen the new 1952 Holstein-Friesian Mobile Exhibit—the big green trailer with the model cows inside that's been making the fair circuit this year. Inside the trailer is a sound and motion display. Model cows on an ingenious cam-shaft seemingly disappear into the loft of a model barn as the herd, portrayed in miniature, actually changes before your eyes from grade to purebred status.

At first glance it is a rather idealistic presentation and obviously biased—in favor of Holsteins, of course. A significant number of already-purebred dairymen have said "that is just the way I got started," many years ago.

A lighted panel board shows exactly which animals are in the herd at the end of each year. At the end of the 6-year period, the whole story is right there in front of you on the panels and in the barn. City people think the exhibit is "interesting." Mechanics wonder how it works. Youngsters think it is "cute." But, real honest-to-goodness dairymen just look the first time, study the second, and then get a sort of chill—they suddenly realize the whole thing makes sense and applies very directly to them!

Back of the thinking that went into the trailer, however, is some good sound philosophy for those who would like to enter the purebred business. So often you've heard it said, "Some day I'd like to go into purebreds." Well, most folks who know will tell you, "Don't GO into purebreds. You'll lose your shirt. GROW into purebreds instead!"

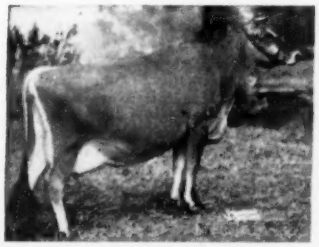
Because the typical purebred man is a practical man who grew into the purebred business himself, it is easy and profitable for the practical grade breeder to grow into the business in the same way. He has all the preliminary requirements. A little smart figuring and careful management, plus the normal amount of luck, and he, too, can have a purebred herd in years ahead. Now, how does one go about GROWing into the purebred business?

Let's discuss the Holstein trailer formula. We have ten grade cows, fairly good cows, a milk market and sufficient know-how to operate.

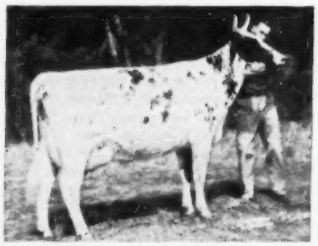
THE FIRST STEP is the purchase of two, good registered bred heifers. Cost? This will vary but cheapest heifer you can find is not usually the best buy. These heifers do not need to be own daughters of the Most Popular Bull of 1952, out of 1000-lb. fat dams. They should, however, be from tested dams, sired by a bull with some sort of indication as to his prowess already established. See sisters of these heifers if you can. See the dams. Look for better-than-average type, all through the family. Look for production: there should be some star performers in the first or second generation but substantial tested production on a number of closely-related animals is more important than stellar performance from a single, distantly-related animal. Look for production and type on BOTH sides of the pedigree. A bull may be half the herd but some cow is half of every calf! Ideally, these two heifers should be related to one another. They are to be foundation animals and you will eventually want to develop some sort of family breeding.

DURING THE SECOND YEAR, these heifers will freshen. The average indicates that 50% of calves are bulls. You will without doubt want to veal your bull calf. Keep the baby heifer. Then *buy two more bred heifers*, using the same care you used in selecting the first pair. Also, *buy one more baby heifer calf* and try to have her in the family line. With your original two bred heifers in milk, you can now *sell two of your grades*. Their selling price will help cover your second-year investment. This is all the buying you will do. The rest is management.

BY THE THIRD YEAR, your first heifers have freshened again and your second pair of heifers have freshened. You *sell two more grades*. Half the calves are bulls so you *sell two vealers*. You keep the two baby heifers. Your two baby heifers from the year before are now bred heifers. You're *(please turn to page 15)*



Champion Jersey Cow Biltmore Signal Ben Jane from Biltmore Farm in North Carolina.



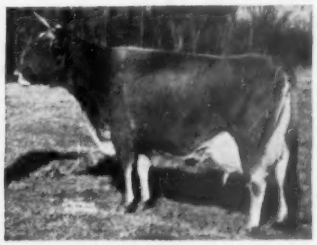
Ayrshire champion Special Laura, 2-year-old from the herd of C. O. Vonruh, Hillsboro, Kan.

1952 DAIRY QUEENS

Would you like to take a refresher course on breed type and dairy quality? We give you here the grand champion cow of each of the five big breeds at the National Dairy Cattle Congress, Waterloo, Iowa.

Holstein cow Woody Glen Queen Mazie, shown by Forsgate Farm of Jamesburg, New Jersey.

Guernsey 3-year-old cow Hagan Farms Merry Song, from Lakewood Farm, Mundelein, Ill.



Brown Swiss queen Marinda Jane of Lee's Hill, noted nursery also in New Jersey.

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FARMER'S TAX SAVER

For the first time, an easy-to-read tax book, exclusively for farmers! It will help you save taxes on your 1952 return and keep out of tax trouble. Written by Jack Miller, former Attorney for Bureau of Internal Revenue, and country's leading authority on farmers' tax problems. Covers sales of breeding stock, mistakes on farm returns, dealing with Bureau auditors, losses, buying and selling farms, and many other problems.

Mailed early January 1953. Send $2 to: FARMERS TAX FORUM, Box 415, Sioux City, Ia.

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WHY DO SO MANY PIGS DIE?
WHY DO SO MANY NORMAL COWS FAIL TO "SETTLE"?

Rex Wheat Germ Oil has been answering these questions for 20 years. Write for folder "Hormones in Rex Wheat Germ Oil."

REX WHEAT GERM OIL MONTICELLO, ILLINOIS

Wake Up To More Comfort

Without Nagging Backache

Nagging backache, loss of pep and energy, headaches and dizziness may be due to slowdown of kidney function. Doctors say good kidney function is very important to good health. When some everyday condition, such as stress and strain, causes this important function to slow down, many folks suffer nagging backache—feel miserable. Minor bladder irritations due to cold or wrong diet may cause getting up nights or frequent passages.

Don't neglect your kidneys if these conditions bother you. Try Doan's Pills—a mild diuretic. Used successfully by millions for over 50 years. It's amazing how many times Doan's give happy relief from these discomforts—help the 15 miles of kidney tubes and filters flush out waste. Get Doan's Pills today!

Weatherman Rules the Markets

But Cornbelt is blessed with feed enough for all. Here's our best reasoning on price trends:

THE harvest is mostly gathered and barns and bins, nationally, are well filled. Production of crops was second largest ever and was only 3% under the 1948 record. But there's a big difference between the "have's" and the "have not's." The Cornbelt raised a bumper crop, but the drouth area in the wide open spaces of the South, Southwest and West is very short of feed grain and harvested forage.

Then, there is a very serious shortage of range and pasture feed. Normally, our *livestock harvests about half of its annual nutriment direct from grass*, including winter grain pasture. Average condition of pastures in Texas and Oklahoma area was only half of average. With the Southwest nearly rainless in October, last month's grazing conditions in the great pastoral cattle and sheep breeding ground were near a record low for the time of year. Only a small acreage of wheat has grown enough to provide pasture.

So, it looks like a tough winter at best and a very tough one if drouth continues unbroken or cold is severe. Heavy drafts on feed supplies in the more fortunate areas will be necessary. Some *dribbling liquidation of livestock* because of feed shortage, the high cost of inshipments and lack of stock water probably will take place. Heavy selling may become necessary if conditions worsen.

STEERS AND HEIFERS of choice and prime grade probably will hold up fairly well in price in the next two months. Numbers of long-fed cattle still in feedlots probably are larger than last year, but the peak of the movement of highly finished cattle to market seems past. Short-fed cattle probably will become more plentiful and will do well to hold late fall price levels up to midwinter. Shipments of feeder cattle into the Cornbelt in the last four months were larger than the heavy movement a year ago. Price relationships between feeders and fat cattle attracted buyers from the areas where a big corn crop was maturing and where there were fewer hogs to feed it to than in 1951. . . . Prices for low grade slaughter steers and heifers and for cows have passed their low for the season, unless continued drouth starts large-scale liquidation.

THE TREND OF PRICES

	Nov. 7, 1952	Month Ago	Year Ago
Beef steers, top	$ 37.00	$ 36.25	$ 40.00
choice & prime	33.25	32.75	36.00
utility & good	24.00	24.00	28.75
Heifers, ch & pr	32.75	31.00	36.75
utility & good	23.00	22.25	28.75
Cows, util & com'l	17.25	15.75	23.00
canner & cutter	12.75	11.50	20.00
Bulls	17.50	16.15	20.50
Calves, vealers	30.50	30.00	33.50
Stocker & fdr steers	30.75	34.00	32.75
Milk cows, gd & ch	.....	217.50	250.00
Hogs, bar & gilts, top	17.75	19.00	19.65
average	17.60	19.00	19.50
Lambs, top	24.00	26.25	31.00
average	22.50	24.00	30.40
Wool, brt ⅝ comb	.65½	.63½	.75½
Butter, 92 score	.68½	.65	.70½
Cheese, single daisies	.46½	.46½	.41½
Eggs, mix lgs extras	.56	.62	.66
Mens, No 1 Hvy	.25	.24½	.28
Wheat, No 2 hard wtr	2.46½	2.39½	2.53
Corn, No 2 yellow	1.59½	1.74½	1.80½
Oats, No 1 hvy white	.92½	.93½	1.03½
Soybeans, No 2 yellow	2.92	2.66½	2.32½
Hay, alfalfa, U.S. 1	37.75	37.75	37.75
Cottonseed meal, 41%	95.00*	95.50*	82.85
Tankage, 60%	110.75	118.75	115.00

*At Kansas City.

(All prices, some of which are nominal, are at Chicago except milk cows at St. Paul, wool at Boston and hay at Kansas City.)

STOCKER AND FEEDER CATTLE price changes will depend a good deal on weather. Good rains in the Southwest probably would cause prices to jump a dollar or two, but continued drouth may keep substantially more coming to market than last year and prevent prices from showing winter's usual strength.

It seems well to keep the feedlots topped out mostly at the Choice grade for the better feeders. Keep buying replacements as long as they remain cheap and you have plenty of corn. Don't overlook those low-grade feeders to be finished for the early spring market.

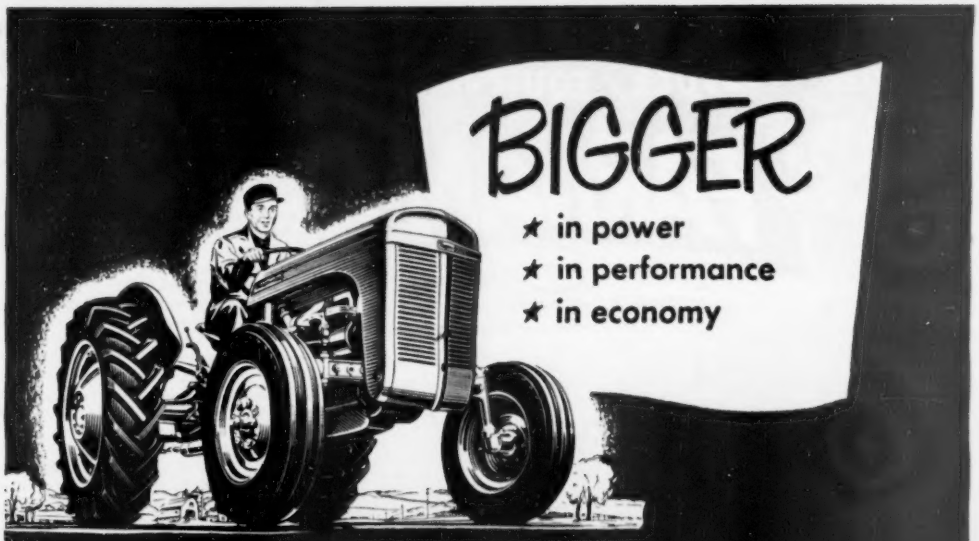
Hog prices probably are scraping bottom, but are likely to fluctuate near the winter low for 6 to 8 weeks. Supplies may reach the winter peak around mid-December, but, after a temporary letup around Christmas and New Year's, are likely to run quite heavy again for two or three weeks in January. Packers probably will begin to buy heavily for storage by late November and prevent much additional decline. . . . Topping out droves only on good bulges, even if it means carrying to rather heavy weights, seems likely to pay over the next 3 months since the price trend probably will be unsteadily upward until late February or March. The hog-corn price ratio is slightly on the profitable side and doubtless will continue so through the winter.

Lamb prices are likely to work higher during the winter and provide good margins on most of your fed lambs. Number

TACK ON YOUR BARN DOOR FOR DECEMBER

Wait for good rallies before selling your fat cattle, hogs and lambs . . . Buy feeder cattle or lambs for which you still have feed . . . Take some of these bargains in Western breeding ewes . . . Wage hot war on rats; use warfarin; organize a community drive . . . Finish drawing up your farming plan and budget for 1953 . . . Make or withhold sales and/or production expenditures before Jan. 1 to minimize your income taxes . . . Figure how you're going to stand tighter squeeze between prices and costs in 1953.

BREEDER'S GAZETTE



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Without question, the most sensational . . . the most talked-about tractor to be introduced in many a year . . . is the far more powerful Ferguson "30". It has established standards of performance that are yet to be equaled . . . by *any* other tractor!

And this performance was largely made possible by the world-famous Ferguson System . . . with exclusive *Suction Side Control.*

If you are thinking of buying a new tractor, we urge you to take this vital step before you buy . . .

Talk to farmers who already have bought the Ferguson "30" . . . who switched from other makes once they saw what *this* tractor could do for them. Talk to the Ferguson Dealer in your community and ask him to explain the vital importance of *Suction Side Control* . . . and to *demonstrate* it!

***THIS BOOKLET TELLS THE STORY**

Your Ferguson Dealer has an interesting and informative booklet for you. It is called, *"The Inside Story of the Ferguson System with Exclusive Suction Side Control."* Ask for your *free* copy and read it from cover to cover. You'll be glad you did! Harry Ferguson, Inc., Detroit 32, Mich.

FERGUSON TRACTOR

and 63 Ferguson System Implements

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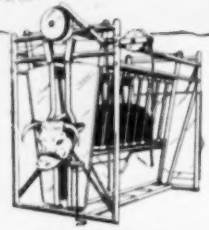

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Safest! Fastest! Easiest to operate! The chute with all the features, and the "best buy" on the market today.

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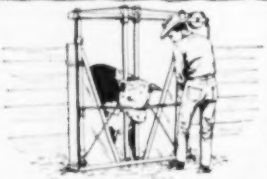
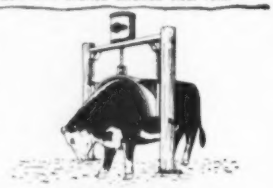
GRAIN ROLLER
Rolls, crimps, cracks all small grains without dusting. Low-cost, farm-size units. Precision built with knurled chromed steel rolls.



FARNAM "Portable"
CHUTE GATE
Makes quick work of most cattle handling jobs. Tie it into place in runway, gate opening, barn door; or install it permanently.



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CURRI-OILER
The only automatic oiler that rids cattle of grubs, lice, ticks & mites. Brushes the insecticide down into the hair and onto the hide.

BRANDING IRON HEATER
Light weight. Portable. Super-efficient, windproof, bottle gas burner. Keeps irons always at proper heat. Brands 'em better, faster!

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Low cost, high pressure livestock sprayer! Operates from power take-off. Delivers 4½ gal. per minute at 350 lbs. pressure!

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BOOKSHELF, BREEDER'S GAZETTE, Spencer, Indiana

Weather Rules Markets

(from page 10) still back in the country is less than last year. After mid-January declining competition from other meats will help the market for dressed lamb. Ceilings on dressed lamb, yearling and mutton have been suspended. Actual prices are considerably under ceiling levels. . . . Drouth has forced selling of many thin-fleshed lambs and ewes. Prices for light feeder lambs and for breeding ewes have reached the lowest level in years. Yearling breeding ewes at $19, 2's and 3's at $12 to $17 and good solid-mouths at $8 to $12 look like great bargains. Some of the older ewes still suitable for breeding have gone to the slaughter pens at considerably lower prices. Offerings of ewes have dropped recently but more forced selling may take place if drouth persists.

Wool prices appear to be on a rather firm base. Holding for a sale at the loan equivalent or placing under a government loan, which will continue available until March 31st on the 1952 clip, seems to be the best course to pursue.

Fluid milk prices will hold up fairly well in the next two or three months, then start on a moderate seasonal decline. Total production of milk per person is the lowest in the 23 years of record.

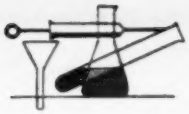
Egg prices are likely, soon after Thanksgiving, to start their decline to a spring low. But, since fewer pullets were raised, the number of layers will be about 5% less than last year, production will be lower and prices in the first half of 1953 probably will average a little higher than in 1952. Feed costs may be down a little, but other costs are likely to be higher.

CHICKEN PRICES usually strengthen from early winter until about Eastertime. Commercial broilermen tend to fill up their houses late in the year to take advantage of this rise, so that it is less than it used to be for farm chickens.

TURKEY PRICES for the record crop are running about 3 or 4c a pound lower than last year, while costs probably average nearly 2c a pound higher. The government bought nearly 23 million pounds up to early November for the school lunch program to remove temporary surpluses. Thanksgiving consumption is likely to be quite large, but there's more than a turkey for every table. Prices are likely to stay low enough to discourage production next year.

Feed grain prices probably will strengthen moderately in early winter. The big corn crop, especially in the "cash corn" areas, which is overflowing storage space in some spots, depressed fall prices. But this pressure probably will soon ease. Feed grain supplies in all positions total about 130 million tons against 134 million tons last season. Livestock numbers are down in nearly the same proportion. Over 8 million tons of feed grain are impounded in government and loan stocks against nearly 14 million tons last year, leaving larger "free" stocks than a year ago. But, any sizable movement of new corn into loan would make "free" supplies per animal about the same as last season.

HIGH PROTEIN FEED PRICES are due to advance moderately in the next two or three months. The available supply per animal for the crop year will be slightly less than in the past season. Use of oil cake and meal to carry cattle in drouth areas probably will hold those prices on rather high levels.

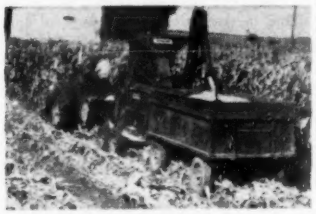


WAR ON DISEASE

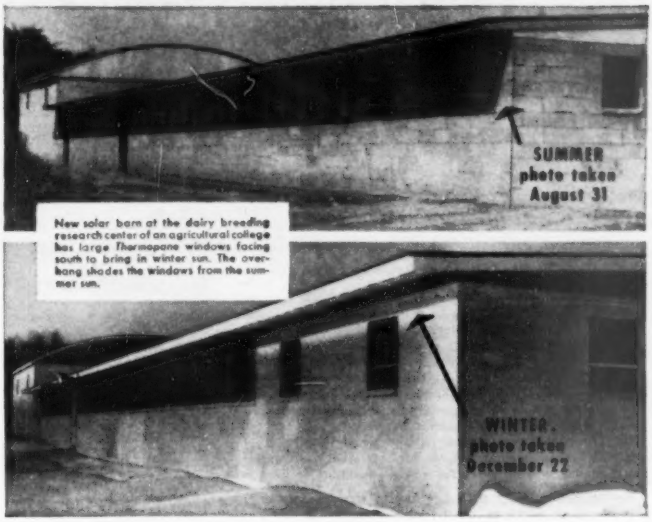
The U. S. Livestock Sanitary Ass'n held its 56th annual meeting in Louisville, elected a Canadian, Dr. T. Childs of Ottawa, president and retained the veteran Dr. R. A. Hendershott of Trenton, N. J., as secretary. Rabies (mad dog), bovine t.b., vesicular exanthema (pictured in our September issue), trichinosis (microscopic roundworms), atrophic rhinitis (bullnose), hog cholera, anthrax, bovine hyperkeratosis (X-disease), anaplasmosis (blood disease), brucellosis (abortion), foot-and-mouth, liver fluke and poultry diseases were all discussed. Several groups reported, including the nation-wide Committee on Eradication of Hog Cholera, headed by Dr. L. M. Hutchings of Purdue and including Iowa swine secretary Wilbur Plager, Yorkshire secretary E. R. Shannon, Durocman Frank C. Smith of Ohio, Farm Bureau director Herman Aaberg, and others.

Uncooked Garbage should be outlawed by every state. This was the one big lesson of the convention. Raw garbage collected from hotels, restaurants, institutions, and fed to hogs near cities and towns spreads cholera, V. E., anthrax, and other diseases. The Public Health Service and U.S.D.A. can only act in interstate movement of garbage. Only a few big cities are located near state boundaries. So it is up to the states to pass laws. Illinois has set up a regulation effective Jan. 1, 1953 forbidding the feeding of uncooked garbage to hogs. Strangely enough, the territory of Hawaii has the most thorough program. Their law reads: "All garbage, offal and swill, regardless of previous processing, shall before being fed to any swine, be thoroughly boiled for at least 30 minutes and then cooled slowly so that every part thereof shall have been at the boiling point of water for 30 minutes, unless treated in some other manner which shall have been approved in writing by the Board (of Health) as being as effective as such boiling and cooling, to protect the public health." You can use that as a model law if you want to get a law introduced in your state. Or the Regional Medical Director of the Federal Security Agency, in your nearest metropolis will help you write a law.

The Hog Cholera Eradication committee recommended that "no garbage not sterilized by heating, except that originating on the premises where it is fed, shall be fed to swine."



New King & Hamilton corn sheller built to work in combination with any corn picker makes it possible to pick and shell corn at the same time. Has separate engine and will shell up to 500 bushels of corn an hour.



New solar barn at the dairy breeding research center of an agricultural college has large *Thermopane* windows facing south to bring in winter sun. The overhang shades the windows from the summer sun.

Let the SUN heat your barn next winter

There's an amazing amount of heat in the winter sun. Brought in through big windows, it keeps the interior drier—for better animal health and production.

Take a tip from this barn. It was designed to bring in winter sun, yet keep out direct rays of the summer sun. It employs three basic principles of good solar barn design:

1. Large windows face south to admit warm sunshine in winter.
2. The windows are glazed with *Thermopane** insulating glass. *Thermopane* helps keep more warmth inside, especially on cold nights. With warmer air, the ventilating system is better able to carry off moisture and maintain a drier building.
3. Notice the roof overhang lets the low winter sun enter through the big windows, but shades them from the high summer sun. In summer, *Thermopane* helps insulate against extreme outdoor heat.

Thermopane is the easiest way to insulate windows. You leave it in all year. It is now available in low-cost standard units made especially for use in farm service buildings. *Thermopane* is sold by glass and building supply distributors and dealers. Mail the coupon for information.

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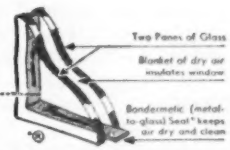
INSULATING GLASS

LOOK FOR THE NAME ON THE SEAL BETWEEN THE PANES



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Carl Nichols, above, of Ogallala, Neb. runs 1800 head of cattle on his ranch 70 miles away at Haigler and another 1800 head at Burwell, 140 miles away.

"It would be impossible to run both ranches without my Piper Super Cub," says Mr. Nichols. "Only by flying can I visit each ranch two or three times a week for personal supervision or to fly in supplies and men. And because the Super Cub will land just about anywhere it's easy to contact my foremen by landing where they happen to be at the time."

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- **Check fences, erosion, crop progress**
- **Dust and spray**
- **Locate strays, drop salt, direct round-up**
- **Give the whole family more chance to see new sights**
- **Visit more cattle sales; get better prices**

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The 4-passenger Piper Tri-Pacer cruises at better than 130 mph, yet is the easiest plane to fly available today. With simplified controls, you drive it like a car, and the tricycle landing gear takes the skill out of landings. So simple to fly people have soloed after one day of instruction. And you learn to fly FREE when you purchase your own Piper.

• • •

For full information on all Piper models—Super Cub, Pacer, Tri-Pacer—see your nearest dealer or write Piper Aircraft Corp., Lock Haven, Penna., Dept. 12-E for FREE brochure.

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"TRAVEL FASTER, CHEAPER BY PIPER"

Advertisement

From where I sit ... *by* Joe Marsh

Our Town Wouldn't Take a "Back Seat"

Well, the "battle of the buses" has been settled! Our town is again friendly with Balesville.

It started when buses began going through our town with a sign on them saying SHOP IN BALESVILLE. The bus line is owned in Balesville and operates over here in our town on a franchise.

Windy Taylor was all for putting up barricades—he kept calling up the police and the bus company. Finally Judge Cunningham invited the Balesville Chamber of Commerce to meet with ours at Andy's Garden Tavern. Over a good meal and glass of beer we all soon reached a compromise. Those signs now read SHOP HERE IN TOWN. Everyone's happy.

From where I sit, it shows how problems disappear once both sides get together and try to work things out. Naturally we're all a little different. Some like soda pop, for instance, and some like beer. So what? We all have to ride along through life together. Why not make it a pleasant trip?

Joe Marsh

Copyright, 1952, United States Brewers Foundation

Handling Brood Sows

(from page 8) ment A, with 46% protein content: Meat and bone scraps, 500 lbs.; Soybean oil meal, 500 lbs.

Pasture Soy Supplement with approximately 38% protein content: Soybean oil meal, 900 lbs.; mineral mixture, 100 lbs.

These protein supplements can be improved by adding Vitamin B_{12}-Antibiotic supplements. Antibiotics are materials which have been found to stimulate growth, improve feed efficiency and reduce scouring in pigs. The antibiotics which are being used most extensively in swine rations are aureomycin, terramycin, bacitracin and penicillin. The best results have been obtained when the antibiotics are fed in combination with Vitamin B_{12}. Feed dealers and elevators are now handling several Vitamin B_{12}-Antibiotic supplements which can be purchased by farmers. For maximum benefit, the pig should receive feed containing the Vitamin B_{12}-Antibiotic supplement from the time it is big enough to eat until it goes to market. Carcass tests show that a 225-lb. market hog which has been fed antibiotics will have one-eighth to one-fourth inch more back fat than a hog which has not received antibiotics.

Preliminary experiments do not indicate any beneficial effects from feeding the material to pregnant sows and gilts. Since the Vitamin B_{12} and antibiotic are needed in such small amounts, they are mixed in a carrier. The label on the material states how much of each is one pound of the carrier. The amount is expressed in terms of grams of antibiotic and milligrams of Vitamin B_{12}. Approximately 60 grams of the antibiotic should be mixed in a ton of protein supplement or 10 grams per ton of total feed (which includes grain).

Efficient swine production depends upon an adequate supply of vitamins in the ration. This is particularly true during the gestation period and for pigs up to 100 lbs. in weight. Our best natural source of vitamins is lush green pasture. Therefore, it is important to provide as near a year-around pasture program as possible.

Vitamin A is necessary for normal growth, resistance against infection and proper function of the nervous system. It is also essential for normal reproduction. Animals convert carotene in green plants into Vitamin A. Hogs grazing on green pasture can store Vitamin A in the body for use during the winter months. Early spring litters are often stronger than late litters because of the storage supply of Vitamin A in the body of the sow.

Vitamin D is essential for full utilization of calcium and phosphorus in the body. When the ratio of these two minerals is out of balance, greater amounts of Vitamin D are required. Direct exposure of hogs to sunlight is the best and cheapest source of Vitamin D but it can be added to the ration in the form of sun-cured hay, fish oils or irradiated yeast. Sunlight is not effective when filtered through window glass. Thus it is advisable to have outside feeding floors in order that hogs will have maximum exposure.

The Vitamin B Complex is made up of 11 or more related vitamins. They stimulate growth, reduce scouring and correct certain skin disorders. A few of the B vitamins which are deficient in many of the natural feeds are riboflavin, niacin, pantothenic acid, pyridoxine and vitamin B_{12}. Common sources are green pasture, alfalfa meal, milk products, fish meal and distillers' solubles.

All Purebreds in 6 Yrs.

(*from page 9*) starting to grow.

FOURTH YEAR: *Sell two more grades.* You now have 6 purebreds freshening. Add three baby heifers. *Sell three more vealers.*

FIFTH YEAR: Another two grades for sale! By now, these grades have paid back the cost of your purebreds, depending on the grades and depending on the purebreds. You have *four more vealers for sale* and four baby heifers. You have three bred heifers, and eight purebred milking cows.

THE SIXTH YEAR you are in the purebred business. The last *two grades sell.* This year *you have five vealers.* You have five baby heifers, four bred heifers and not ten but eleven milking purebreds, three of these milking two-year-olds. With only ten stanchions, you can now *sell one of your purebred cows* and you'll be surprised how much more she's worth than those grades.

In total, you've done business for 6 years and have bought 4 bred heifers and one baby heifer calf. You've sold 10 grade cows, 16 bull calves. There has been no interruption in your milking string and therefore no interruption in the milk income which is your primary pay-check.

Now, already if you're a practical dairyman, you've seen fallacies, little "but's" and "if's." Certainly, you could have all bull calves during the period. This has happened. But, the chances are you will not. Your chances of having ALL heifers are just as great and you certainly wouldn't complain about that. Your chances of getting ahead of the above formula are just as good as falling behind.

Another thing is mortality, especially among calves. This is why we earlier stressed that experience with grades and general farming was important. But, good dairymen who know how to care for calves without pampering them have nothing like average calf loss. We know purebred men, practical farmers, who have never lost a calf. Others may lose one in a hundred or less. Barring very bad luck, and granting reasonable care, calf loss should not be a problem.

Another "but" is the matter of breeding efficiency. Yes, we are being a bit optimistic in the plan above, which assumes every cow freshening every year. But, there is one fact we haven't yet discussed which amply covers calf loss, broken legs, breeding troubles, mastitis, and all of the other plagues of dairying: We stopped the whole herd at age 6 years!

Six years (four lactations) is younger than the average age for all cows at the time they leave the average herd. Purebred breeders and good grade dairymen have nothing like such an average for cows they send to the butcher. Good care, good type, clean barns, good feed, proper milking by persons who care about their cows . . . these things stretch the life of cows by many years.

No provision has been made in the above formula for a bull. It is assumed that access to a good artificial breeding service is available. This is one of the reasons it was suggested that the original foundations be related animals. Artificial service today rarely makes line-breeding possible unless the cow families themselves are related.

There are other ways of building a purebred herd, to be sure. But this formula above has worked in essence for thousands of purebred breeders. It can work for you.

Cyclone POWER SEED SOWER

Farmers who have walked a lot of miles on honey-combed fields, or let good seeding days pass by because of adverse winds, will appreciate the labor saving, time saving, seed saving Cyclone power seeder. Same double oscillating feed as hand sowers. Simple to attach; sows all types seed, including brome, uniformly. P.T.O. model operated by sturdy, ½ inch flexible shaft—no gears, no difficulty in hooking up. Also electric model, uses power from your 6-Volt battery. Accurate seed gauge; instant shut-off easily operated from tractor seat—no wasted seed. Operates satisfactorily anywhere you can drive your tractor. . . . Write now for free literature and prices. If no dealer in your community, we will accept direct orders.

THE Cyclone SEEDER COMPANY, Inc.
BOX BG, URBANA, INDIANA

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LIVESTOCK Spray CONCENTRATE

Over 7 million head of cattle sprayed with Rotenox last season. The one and only spray concentrate that controls cattle grub; and at the same time gets lice, ticks and mange mites. NON-TOXIC—Safe to use! Does not require high pressure spray application. ECONOMICAL—Dilutes 1 to 160. If your dealer can't supply you, write ——

THE FARNAM COMPANY Dept. 770 Phoenix, Arizona

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Here's my three bucks, and thanks for the Christmas gift. Extend my sub 5 years and send knife gift today.

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SAVES LABOR
FULLY AUTOMATIC
Keeps stock and poultry supplied with warm water . . . regardless of weather.
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Make Better Feed at Lower Costs with a Johnson MIXALL
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WRITE for our folder listing new agricultural books.
BOOKSHELF, Breeder's Gazette, Spencer, Ind.

Cattlemen Elect and Show

TWELVE thousand entries from 34 states and the Dominion are waiting at the old stone gate in Chicago to enter the stockyards and the 53rd International Livestock Exposition. More than 75 purebred record societies and allied livestock record associations will hold their annual meetings.

● The American Aberdeen-Angus Breeders' Ass'n, Union Stock Yards, Chicago, now has 24,157 members, the largest of any beef cattle recording society, even the American Hereford Ass'n, which we reported last month as having 21,292 members. In the Angus year just closed 164,329 purebred calves were recorded, an increase of 25,433 over the previous year. Missouri had the most recordings followed by Iowa, Illinois, Texas, Kansas and Kentucky in that order. The annual meeting of the Angusmen is being held in Chicago during the International.

● Meanwhile the American Hereford Ass'n met in Kansas City and elected Herbert Chandler, Baker, Ore., president to succeed Roy R. Largent, Merkel, Tex. The new president has 350 purebred whitefaces on a 3,000-acre spread in eastern Oregon. J. Douglas Gay, Pine Grove, Ky., is the new vice-president and in line to head the great recording society next year. The American Hereford Ass'n registered 548,418 cattle last year.

● A Hereford steer from Oklahoma, a crossbred lamb from Oklahoma, a Poland China barrow from Oklahoma, a carlot of Herefords and one of Angus were judged grand champions of this year's American Royal in Kansas City. More than 150,000 persons viewed the livestock exhibits; and watched the greatest number of horses ever entered in a single horse show.

Grand champion steer was Larry Progress 32nd, owned by Oklahoma A & M College at Stillwater and shown by Orville DeWall, herdsman. Judged best in the great show by Herman Purdy of Ohio State University, the 1165-lb. junior yearling sold @ $4.01 a pound.

The grand champion lamb was also shown by the Oklahoma Ag. college. A 215-lb. Poland China owned by Witaker State Home, Pryor, Okla., was grand champion barrow.

Karl and Jack Hoffman, Ida Grove, Ia., returned to the top spot in the carlot fat cattle show with a load of medium-weight Herefords that sold for $50.00 per cwt. It was the 7th time for this father-son team to win the great Royal prize.

C. E. & Ida Tupps, Elizabeth, Colo., took grand champion honors in the feeder carlot show with their load of Angus calves. They brought $43 per cwt.

Shorty, a 1025-lb. Angus steer owned by Faye Mugge, a 4-H Club girl, Cleghorn, Ia., was grand champion of the junior division and reserve champion on the show. Faye withdrew her steer from the sale and indicated she would enter him in the International at Chicago.

● Iowa, with the Shorthorn of Bill Anderson and the Hereford of Irvine & Timm, and Boys Town of Nebraska with their Angus, put the Pacific Coast in a dither for the champion steer at the Grand National. A whiteface from Oregon's Double M Ranch finally won.

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A Perfect XMAS GIFT
CLIPS Cows, Horses Mules, Dogs, faster, better
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Grooming Brush attachment does better job of cleaning dairy cattle. Write for information on Sunbeam Stewart clipping equipment.
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Here's how to get your horse back to work fast:
"In 40 years of farming, I've always used Absorbine for my horses. I've found it quickly relieves strains and soreness from windgall," *says Gustave Trautman of Milton, N. Y.*
There's nothing like Absorbine for lameness due to windgall, sore shoulder, similar congestive troubles. Not a "cure-all," but a time-proved help . . . used by many veterinarians. A stand-by over 50 years, it will not blister or remove hair. Only $2.50 at all druggists.
W. F. Young, Inc., Springfield, Mass.
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Genuine Finland Made HUNTING KNIFE
2.95 A $6 Value
Finest Finnish-Forged Cutlery steel, expertly fashioned for fish and game sportsmen. Razor edged, beautifully etched 4 in. blade. Blood grooves on each side. Sure-Grip, laminated BIRCH-BARK handle. Saddle-stitched genuine leather sheath. Large 6 in. blade—$4.95. Refund if not pleased. FREE catalog of unusual sports, gift, home items.
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Potent blend of vegetable vitamins A and E (with vitamin D₂) for use in nutritional sterility. Feed one dose a few days before mating. Used with great success by breeders in all times. Money-back guarantee. Sent postpaid —4 oz. only $1.80. *Trade Mark
NUTRITIONAL RESEARCH ASSOCIATES
Department 13 South Whitley, Ind.

● Chicago's Feeder Cattle Show brought out 8,990 head which averaged $29.38 per cwt. The yearling steers brought $28.25 and weighed 720 lbs. on the average, while the yearling heifers tipped the beams at 625 lbs. and sold for $27.71. The steer calves averaged 418 lbs. in weight and $32.79 in price, whereas the heifer calves brought $28.96 on an average weight of 384 lbs.

In the Feeder Calf Sale of the Egyptian Livestock Ass'n at the Dixon Springs, Ill., pasture station, 1205 calves and yearlings sold for a total of $141,158.42. The average price paid was $23.75 per cwt. A top price of $27.50 was paid for two pens of 425-lb. calves. The yearlings brought $17.00 to $24.75, with the bulk selling for $21.00 @ $22.00. Calves sold for $19.00 to $27.50, most of them at $24.00 @ $25.00.

● A uniform and bloomy load of Hereford calves from Wyoming emerged as grand champion over all breeds at the annual Omaha Feeder Calf Show. Exhibited by George Mill of Hat Creek, Wyo., they averaged 408 lbs. and sold in groups of five for an average return of $59.67 per cwt., one group bringing $80. A total of 3,285 calves were shown at an average weight of 380 lbs. The over-all average was $32.14 per cwt.

● The Panola-Tate County Livestock Association held a purebred Polled Hereford calf sale at Senatobia and got a $561 average on 104 head. . . . In Eddie Axton's Hereford dispersion at Darby Creek 20 bulls averaged $315 and 70 females $337.

Wool Growers To Meet

THE 88th annual convention of the National Wool Growers' Ass'n will be held at Edgewater Beach, Chicago, Dec. 7-10. Write J. M. Jones, Secretary, 414 Pacific Nat'l Life Bldg., Salt Lake City 1, Utah, for a program.

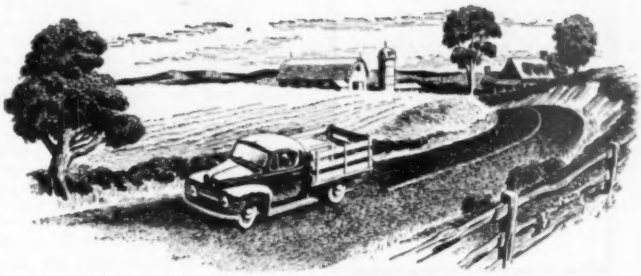
The Southdown Handbook is a compedium of the meat breed which Sec'y Bill Henning, 212 S. Allen St., State College, Pa., will send you for $1.

Described by the "Sheep Breeder" magazine as "the greatest sheep sales held on the North American continent to this date" were the dispersal auctions of Suffolks and Hampshires held by Wm. F. Renk & Sons at Sun Prairie, Wis., on successive Mondays. E. L. Stoughton, of Connecticut paid $1,500 for the top Suffolk ram. Mrs. E. A. Rudolph of South Dakota set a record price for a ewe when she bid $1,050 for Deep Purple, the Chicago champion in 1950. The record stood only until the champ's daughter was offered and brought $1,100 from Hy Lawn Farm of Wisconsin. . . . Not to be outdone Hampshire breeders crowded into the Renk barn a week later and paid a top of $1,900 for a ram, an imported yearling which went to Sheffields Farm in New Jersey. Mrs. Ammie E. Wilson, Plano, Tex., paid $725 for the top ewe and $500 for a lamb.

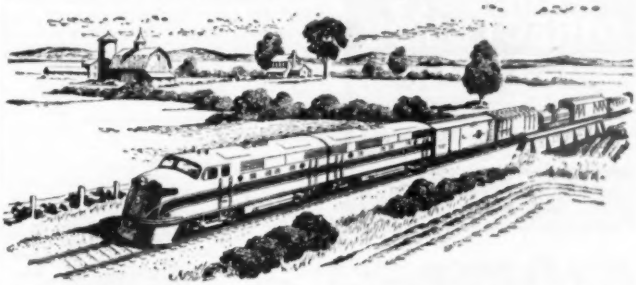
Iowa's Rambling Ram Truck sold flock sires like hot cakes on its 15th annual fall tour. Some 60 Hampshires sold at an average of $73 a head, 28 Suffolks @ $93, 12 Shropshires @ $74, 4 Cheviots @ $70, 5 Corriedales @ $80, 1 Montadale @ $100 and a Southdown @ $70.

See you at the Sheep-Shearing Contest in Chicago. Or at the flock registry meetings.

A Tale of Two Roads



This is the road that runs past your farm. It is your link with neighbors and nearby towns. You probably use it every day. And remember, no matter who *uses it*, *your taxes* pay for building and maintaining it.



This is the road that connects your farm with every other part of the nation. On this road of rails, your crops go to markets near and far. On these rails move the equipment and supplies you use. And, of course, *the railroads* pay for building and maintaining these steel highways, as well as paying local and state taxes on them.

Public roads are designed to carry your automobile and your farm truck, but they break down under the pounding of heavy commercial freight traffic. Railroads are built for *heavy-duty* hauling. And it is a job railroads do with unequalled efficiency – carrying more freight, more miles, at a lower average charge than any other form of general transportation. Isn't it good common sense, then, to use railroads for the job they do so well?

For, the more freight the railroads carry, the less wear and tear there will be on your public highways—and the less you, as a taxpayer, will have to pay for building and maintaining these highways.

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but will quickly move into strong hands. HOLD dry beans in good bins."

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DOANE AGRICULTURAL DIGEST

last year on September 14, 1951. Within the next 90 days the price of beans advanced 43c per bushel—an increased earning of $430 on 1,000 bushels. . . . Similar advice is given on other major farm products and supplies. . . . Would you like to know what advice Digest clients are receiving now on buying and selling soybeans and other farm products and supplies? Write for FREE sample releases.

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Solid brass tags and brass-plated chain.
No. 21—FOR NECK. Adjustable. Tags numbered both sides. $13.25 per dozen.
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Write for catalog. Sample mailed for $1.00.
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No danger of infection

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Minimize your losses at marketing time. BURDIZZO marked stock thrive better.

O. M. FRANKLIN SERUM CO., DENVER, COLO.
La "Burdizzo" Co., Corso Sebastopoli 187, Turin, Italy—Sole Makers

He Stopped Communism

(from page 7) with that field yonder." Much to his surprise, he found the depth of moisture there as great as in his own field. "Forgive me," begged the native farmer, dropping to his knees. "I watched everything you did and, when you were not using your plows, I borrowed them from your foreman." From that time on, Sam knew he was on the right track.

Dr. Hig retired in 1944 and settled in Babson Park, Fla., where he promptly established the Christian Service Training Center for missionaries-to-be. Meanwhile, of course, the Institute at Allahabad continues to expand. Today it has an enrollment of 300, and to its curriculum have been added courses in agricultural engineering, home economics, horticulture, agronomy, animal husbandry, and dairying. The radius of its influence is widening steadily.

In light of today's headlines, Dr. Hig's work seems to have had a political significance he probably never envisaged. For around Allahabad, communism has had little effect. Where Sam Higginbottom taught that to enrich the soil was to enrich man's soul, the dominant political bent is toward democracy and the West.—From *Minutes*, a magazine for policyholders published by Ohio Farm Bureau Federation.

FIRST day the snow drifts deep and the cold bites right through your gloves before the morning chores are finished, you can spend some profitable hours in [illegible] booklets. They're the best [illegible] in our desk each month, and they're all free. Just ask for them on postcards sent to the addresses listed. We'll appreciate it if you mention Breeder's Gazette when you write:

University of Illinois, Urbana, Ill. Circular No. 692 **"Storing Soybeans on the Farm"** (controlling moisture, protection from rats and insects, type of storage to use).

Cyclone Seeder Co., Box BG, Urbana, Ind. **"Sow from Your Tractor"** (what the new power seeders will do in fast, even distribution of grain, forage and pasture seeds).

Wilbur L. Plaeer, Iowa Swine Producers Assn., State House, Des Moines, Ia. **"Iowa Swine Breeders' Directory"** (100-page annual. Nutrition treated by Damon Catron, diseases by Dr. Spears. Purebred breeders in Iowa listed by breeds).

V. C. Gilbertson, D. W. Onan & Sons, Inc., Minneapolis 14, Minn. **"When the Power's Off"** (standby electric plants to keep your equipment running if your highline power is cut off for hours or day. You'll be especially interested in the new generator that operates on your tractor's PTO).

Iowa State College, Ames, Ia., Bulletin P 99, **"151 Questions on Cattle Feeding and Marketing"** (it is by Rex Beresford. Nuff said).

The Oliver Corp., Dept. P-24, 400 W. Madison St., Chicago 6, Ill. **"New Oliver '17' Spreader"** (here's something brand new for the stock farmer—designed to save time, money, labor and repairs).

Breed For BIGGER LITTERS

Last year 47,872 purebred Duroc sows averaged 10.1 pigs per litter farrowed and better than 8 pigs raised. That compares to about a 6.6-pig national average. Of the 385,919 pigs raised in the recorded Duroc litters, it was nearly an even boar and sow split—186,368 boars raised and 199,551 sows produced. Sec'y Bing Evans of the United Duroc Ass'n, Peoria, says his recorders select breeding stock from large litters raised and also pay particular attention to the underlines, making sure that sows have at least 10 well spaced teats. Twelve is better. Since the development of sows' milk replacer, there is no limit to the number of pigs per litter that may be raised.

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BOOKSHELF, Breeder's Gazette Spencer, Indiana

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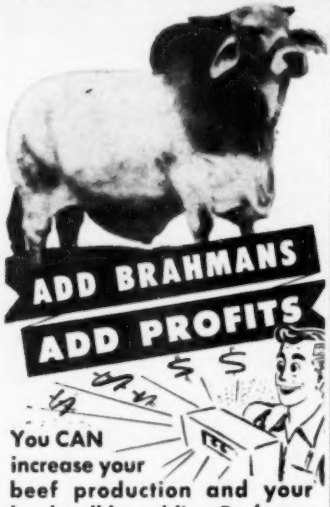

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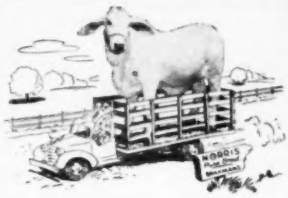

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MAYBE YOU ARE WONDERING HOW IN THE WORLD PRESIDENT EISENHOWER can make good—after the price support laws now on the books run out—on his implied system of price supports under cattle, hogs, sheep and poultry. Well, he will have a bi-partisan agricultural commission going by that time. The Federal Crop Insurance Corporation has been gathering actuarial experience on balancing indemnities with premiums on corn, cotton, wheat, flax, tobacco and beans in many counties, since 1938. Pig insurance has not been tried, but there is a multiple-crop protection plan that carries it right up to the self-feeder. Is it not possible that some system of insurance could be developed so that the producers themselves by equitable premiums could support parity prices on perishables?

Buy Feed Before '53

AND WITH INCOME TAX REPORTS RIGHT AROUND THE CORNER, WE have no hesitation in advising you to buy right soon any feed grain you may need. Corn is relatively the most plentiful, with oats next (remember WILBUR RENK'S advice last spring?) and grain sorghums the scarcest. Comparative prices run that way too. Then as sure as you're sitting there, hay prices are on the way up. The supply per animal, new crop and carryover, is nearly 10% less than last year. But usage of hay has been considerably greater than 1951, what with pasture and range feed extremely short and very little wheat pasture available at all. If you are one of the fortunate cornbelters with a surplus of the great feed grain, get it into a crib that will qualify for a loan. At least a foot off the ground and with a roof that will keep it sound and dry. You can probably sell that corn for more than the support price loan later in the season. Or if you have growthy shotes, healthy lambs or feeder calves bought right, either from yourself or a rancher, you can probably stand on the corn support and outbid most anybody.

Popped—But Not Strung

THE AMERICAN SOCIETY OF ANIMAL PRODUCTION MEETS IN CHICAGO the day after Thanksgiving. Then follow judging contests, junior shows, and a full week crowded with livestock conventions. Be sure and attend the meeting of your favorite breed record association, whether you are a paid-up member or just prospecting. If you don't know when and where they meet, see me in the Press Box, upstairs, just west of the spot where they made Toby grand champion over little RICHARD RENK'S Hereford and that roan Shorthorn. It's right above where IKE stood when he launched his crusade. . . . Right beneath our editorial windows as I write in the courtyard of the Louisville Stock Yards are a couple thousand Kentucky farm kids showing 755 fat steers. . . . JOHN M. LEWIS and his boys showed the champion bull in the Polled Hereford National at Tulsa. Shows you what Kansas alfalfa will do. O, oh, the champ was bred in Mississippi! . . . The Tennessee Agricultural Hall of Fame unveiled a tablet commemorating not one man, but nineteen. They organized the Goodlettsville Lamb Club in 1877. . . . And now they're putting detergent instead of sulphuric acid in the Babcock test. That stuff always did spill out and make a mess of your fingers. . . . Old Mother Nature is the best doctor after all. Remember when I drowned my best ewe lamb by drenching her with a Coke bottle? Well I hurt my hand too, kind of an ugly scratch. In Chicago an M.D. examined it and shot me with 200,000 units of penicillin. In Denver a surgeon gave me another 300,000. Still sore in Steamboat Springs where NORMAN WINDER and H. W. GOSSARD wrapped it up. Well, when I got home I felt something in the palm of my hand, and would you know, there was a clean white pine splinter an inch long. I must have run it in there when I fell over the wheel barrow. But Nature had washed it, pasteurized it, and now was handing back to me the cause of my discomfort. More than X-rays and antibiotics could do. . . . Yes, I know it's coming. A merry, merry Christmas to you, every one.

Your friend,

Samuel R. Guard *Editor*

More than a tractor.. it's a new WORK-SAVING way of farming

Now you can be in the field quicker, and home earlier, with a greater feeling of accomplishment. Engine power of the Allis-Chalmers WD is harnessed in *seven* work-saving ways . . . more than in any other farm tractor.

Seven ways, it lightens your farming load.

Engine power does it all:

1. Spaces drive wheels. 2. Boosts traction automatically. 3. Lifts and controls mounted implements. 4. Powers harvesting machines stop-or-go with Two-Clutch Control. 5. Controls pulled implements hydraulically. 6. Drives belt-powered machines. 7. Gives you 3-plow pull, with 35.80 engine horsepower.

Take the word of power-wise farmers who know. The WD actually does the work of heavier tractors . . . saves time, fuel and effort at every turn.

Jobs melt away with this seven-way work-saver. It takes the armwork out of farmwork!

. . . do it with Engine Power

POWER SHIFT DRIVE WHEELS change wheel *spacing instantly for* every tool and row width. Faster hitching! Easier plowing! Higher yields!

TRACTION BOOSTER automatically adds weight on drive wheels to increase traction. Permits mounted hydraulic implements to hold *level depth.*

TWO-CLUTCH CONTROL Hand clutch stops tractor without interrupting power flow to PTO. Like having an extra engine! Foot clutch stops power instantly.

IMPORTANT NEW FEATURES — 4-speed *helical gear* transmission, with a lower low and higher high! Speeds are $2\frac{1}{3}$, 3.5, $4\frac{3}{4}$, and $10\frac{3}{4}$ mph. Quieter! Smoother! Longer wearing! New easier-riding hydraulic seat.

ALLIS-CHALMERS
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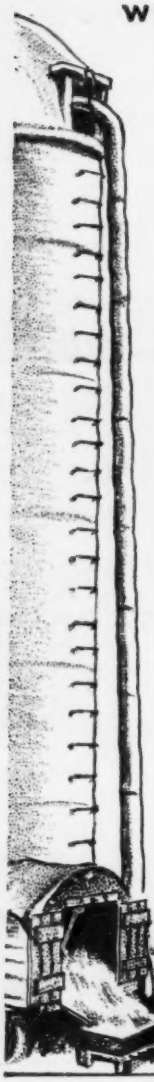
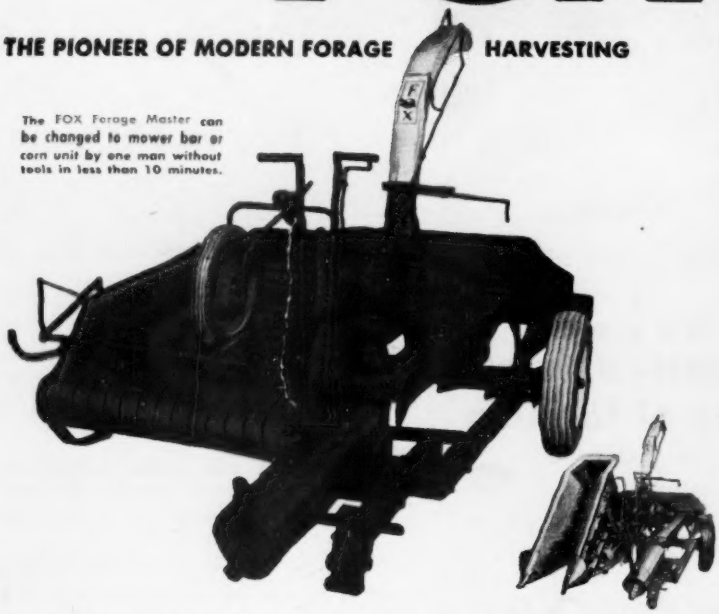
No Labor Shortage

WHEN YOU USE THE **FOX**

THE PIONEER OF MODERN FORAGE HARVESTING



The FOX Forage Master can be changed to mower bar or corn unit by one man without tools in less than 10 minutes.



The perfect Corn Silage Harvester.

The FOX has solved the labor problems on thousands of American farms. Harvesting hay, grass silage, corn silage and small grains the FOX way is easier, faster and requires less help. Twenty years ago FOX engineers brought out the first modern Forage Harvester. Today's model is the result of twenty years of field proven performance. In the FOX you have a forage harvester that you can rely on to operate day in and day out without costly delays.

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